### PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 101056-1 WO	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/SE2004/000694	International filing date (day/month/year) 06 May 2004 (06.05.2004)	Priority date (day/month/year) 09 May 2003 (09.05.2003) ]		
International Patent Classification (IPC) or national classification and IPC 7 C07D 471/04, 513/04, 498/04, A61K 31/437, A61P 11/06, 37/00, 19/02				
Applicant ASTRAZENECA AB				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of	of 6 sheets, including this co	ver sheet.		
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	. This report contains indications relating to the following items:				
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the intern	national application		
	Box No. VIII Certain observations on the international application				
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 11 November 2005 (11.11.2005)		
	The International Burear 34, chemin des Color	mbettes	Authorized officer Philippe Becamel		
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Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY

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Global Intellectual Property AstraZeneca AB 151 85 Södertälje

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

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		Date of mailing (day/month/year)	1 3 -09- 2004	
Applicant's or agent's file reference		FOR FURTHER ACTION		
101056-1 WO			See paragraph 2 below	
International application No. International filing date		(day/month/year) Priority date (day/month/year)		
PCT/SE2004/000694	06.05.2004		09.05.2003	
International Patent Classification (IPC)	or both national classifi	cation and IPC	<u></u>	
C07D 471/04, 513/04,	498/04, A61	K 31/437, A6	51P 11/06,37/00,19/02	
Applicant				
AstraZeneca AB et al				
	<del></del>			

1.	1. Inis opinion contains indications relating to the following items:					
	$\boxtimes$	Box No. I	Basis of the opinion			
		Box No. II	Priority			
	$\boxtimes$	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
		Box No. IV	Lack of unity of invention			
	$\boxtimes$	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
		Box No. VI	Certain documents cited			
	$\boxtimes$	Box No. VII	Certain defects in the international application			
		Box No. VIII	Certain observations on the international application			
2.	FURTHER ACTION					
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
	For further opinions, see Form PCT/ISA/220.					
3.	For fu	orther details, se	te notes to Form PCT/ISA/220.			

Name and mailing address of the ISA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88

Authorized officer

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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/SE2004/000694

В	ox No. I	Basis of this opinion
1.	in which	and to the language, this opinion has been established on the basis of the international application in the language it was filed, unless otherwise indicated under this item.  is opinion has been established on the basis of a translation from the original language into the following language is opinion, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 1(b)).
2.	claimed i	ard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the invention, this opinion has been established on the basis of:  of material  a sequence listing  table(s) related to the sequence listing
	b. forma	in written format in computer readable form
	c. time	of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.
3		n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been led or furnished, the required statements that the information in the subsequent or additional copies is identical to nat in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4	l. Addition	nal comments:

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/SE2004/000694

ox No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The question whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:
the entire international application
Claims Nos. 8-9 .
because:  the said international application, or the said claims Nos. 8-9 relate to the following subject matter which does not require an international preliminary examination (specify):
Claims 8-9 relate to methods of treatment of the human or animal body by surgery or by therapy or diagnostic methods practised on the human or animal body (PCT Rule 39.1(iv)).
the description, claims or drawings (indicate particular elements below) or said claims Nos.  are so unclear that no meaningful opinion could be formed (specify):
the claims, or said claims Nos.  by the description that no meaningful opinion could be formed.  are so inadequately supported
no international search report has been established for said claims Nos.
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
the written form . has not been furnished
does not comply with the standard  the computer readable form has not been furnished
the computer readable form has not open furnished does not comply with the standard
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
See Supplemental Box for further details.
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/SE2004/000694

Bo	x No. V	Reasoned statement u applicability; citations	nder Rule 4: s and explan	3 <i>bis</i> .1(a)(i) ations sup <sub>l</sub>	with regard to novelty, invent porting such statement	ive step or industrial	
1.	Statemen						
	Nove	Ity (N)	Claims	1-7,	10	Y	ES
	14046	ny (11)	Claims			N	Ю
	lnven	tive step (IS)	Claims			· Y	ES
	HIVOH	nive step (15)	Claims	1-7,	10	N	Ю
	Indus	trial applicability (IA)	Claims	1-10		Y	ES
	111003	mai applicability (171)	Claims			N	10

2. Citations and explanations:

The following documents have been found relevant:

D1: US 3996233 A D2: US 3953461 A

The cited documents represent the general state of the art. The invention defined in claims 1-7 and 10 is not disclosed by any of these documents. Accordingly, the invention defined in claims 1-7 and 10 is novel and is considered to be industrially applicable.

Inventive Step (IS)

Document D1 comprises amino derivatives of imidazol[4,5-b]pyridines being useful as depressants and anti-inflammatory agents (see column 6 lines 39-55).

Document D2 relates to amino derivatives of thiazolo[5,4-b]pyridine-6-carboxylic acid, esters and their salts being useful as depressants and anti-inflammatory agents (see column 4 lines 3-18).

Claims 1--7 and 10 relate to a selection of compounds according to the general formulas I, in D1/D2, which are considered to share similar structures. Such a selection can only be considered as patentable if the novel compounds in the present patent application present an unexpected effect compared to the known compounds in the above cited documents.

## · WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/SE2004/000694

Box No. VII Certain defects in the international application

The following defects in the form or content of the international application have been noted:

### Claim 1

The relative term "Ar= CH2-R6" used in claim 1 has no well-recognised meaning and leaves the reader in doubt as to the meaning of the technical features to which it refers, thereby rendering the definition of the subject-matter of said claim unclear (Article 6 PCT).

#### Claim 2

Claim 2 comprises a compound of formula I wherein Y must be NH or S. It is clear from formula I in the description that the following feature Y=NH or S, is essential to the definition of the invention:

Since dependent claim 2 does not contain this feature (Y) it does not meet the requirement following from Article 6 PCT taken in combination with Rule 6.3(b) PCT that any dependent claim must contain all the technical features essential to the definition of the invention.